Java Day 1 Assignment

Q1-Mention the difference between interpreter and compiler.

Ans-

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| **Sr No** | **Interpreter** | **Compiler** |
| 1 | It translate one line of program at one time into machine code | Compiler scane whole program and translate whole into machine code at once. |
| 2 | It takes less time to analyze code and overall execution time for whole code is slower | It takes more time to analyze code and execute code in less time |
| 3 | It does not generate intermediary code hence its highly efficient in memory | It generates intermediary object code hence its requires more memory |
| 4 | It keeps translate the code untill the first error is conforted if any error is spotted it stops the working hence debugging is easy | It generates error message only after scanning complete program hence debugging is harder with compiler |
| 5 | E.g-Python,java | E.g=C,C++,Java |
| 6 | Java can be considered as compiled and interpreted language because its source code is firstly compiled into binary code and this byte code interpreted by JVM. | |

Q2- Define a class Student with following members:  
int roll, String name, float marks.  
input() to take input of the details  
display() to all details of a student.  
Write a program to which will store details of a student and print the details using the above class.

Ans-

import java.util.Scanner;

public class Student{

      int roll;

      String name;

      float marks;

      public void input()

      {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter roll:");

        roll=sc.nextInt();

        System.out.println("Enter name of student:");

        name=sc.next();

        System.out.println("Enter marks of student:");

        marks=sc.nextFloat();

      }

     void display()

     {

          System.out.println("The roll no is" +roll);

          System.out.println("The student name is:" +name);

          System.out.println("The marks is:" +marks);

      }

      public static void main(String[] args)

       {

        Student s1=new Student();

        s1.input();

        s1.display();

       }

    }

Output

